

**National University of Public Service**

<b>Climatters 2018</b>
Environmental Scarcity and Sustainable Solutions
<b>Sustainability day at NUPS</b>
<b>24 May 2018 (Thursday)</b>

*Draft*



**Programme:**

**24 May 2018 (Thursday) Széchenyi Hall**

8:30 - 9:00	<b>Registration, coffee</b>	
9:00 - 9:10	<b>Prof. Dr. András Patyi</b> , Rector, NUPS	Opening of the conference
9:10 – 9:40	<b>Ilaria Perissi</b> , Senior Researcher, University of Florence <i>in English</i>	<i>Natural resource crisis and the planetary boundaries: state-of-play</i>
9:40– 10:10	<b>Thomas L. Bostick</b> , Lt. Gen. (Ret.) US Army, Chief Operating Officer, Intrexon Corporation, <i>in English</i>	<i>The global security implications of natural resource scarcity</i>
10:10 – 10:40	<b>Kristen Walker</b> , Managing Director for the Policy Center for Environment and Peace, Conservation International <i>in English</i>	<i>Peaceful transition or social collapse?</i>
10:40 – 11:20	<b>Daniel R. Brooks</b> , Professor, University Of Toronto <i>in English</i>	<i>Climate change and public health</i>

11:20 – 12:00 accompanying the guests to Ludovika Residence Hall, Coffee break

**24 May 2018 (Thursday) Ludovika Hall of Residence – Auditoriums on the ground floor**

12:00 - 13:30	Parallel thematic sessions I.	1. The security aspects of the natural resource crisis: conflicts, catastrophes, migration and the new world order (chair: Zoltán Hautzinger, NUPS, Faculty of Law Enforcement) 2. From Person to Planet: Scaling Sustainable Practices (chair: Mark McCaffrey – NUPS, Institute for Sustainable Development Studies (in English) 3. Ecosystem services: collapse or adaptation? (chair: János Zlinszky, Pázmány Péter Catholic University)
13:30 – 15:00	<b>Lunch break, exhibition</b>	Networking
15:00 – 17:00	Parallel thematic sessions II.	4. The chances of social and economic transition (chair: Gergely Tóth, University of Kaposvár) 5. Climate change and public health (chair: Anna Páldy, National Public Health Center) 6. Technology, raw materials and energy in the 21st century (chair: János Lang, FLEXTRONICS)
17:00 – 18:00	<b>Coffee</b>	

***Programme (general public):***

**The exhibition space – Sustainability Day 2018**

11:00 – 18:00            **Day-long events**

**Exhibition partners (based on the 2017 event):**

- Association of Climate-friendly Municipalities
- National Food Chain Safety Office
- Réthy Fashion
- CORKA Design
- UPCY öko design

*Call for presenting:*

**National University of Public Service**

**CALL FOR PRESENTING**

**Climatters 2018  
Sustainability day**

Environmental Scarcity and Sustainable Solutions

**24 May 2018**

Invited speakers (TBC):

**Ilaria Perissi**

Senior Researcher in Physical Chemistry, University of Florence

**Thomas L. Bostick (Lt.Gen.)**

Chief Operating Officer, Intrexon Corporation

**Kristen Walker**

Managing Director, Policy Center for Environment and Peace, Conservation International

**Daniel R. Brooks**

Professor of Evolutionary Biology, University of Toronto

**CALL FOR PRESENTING**

The Institute for Sustainable Development Studies of the National University of Public Service at the Faculty of Water Sciences is organising an international conference on the **security, social-economic and public health aspects of environmental scarcity**.

### **The Conference**

The degradation of the environment has led to the emergence of complex crises in the 21st century that is fundamentally altering the conditions of life on Earth and the operation of human societies. The global expansion of the population and economic growth has resulted in the depletion of non-renewable natural capital and the loss of renewable resources. This creates scarcities at local to global scales with important security, social-economic and public health impacts that are not yet fully known. Responding to these critical challenges requires rapid and definitive action by political and economic decision-makers.

The Climatters 2018 Conference addresses the emerging global challenges triggered by environmental scarcity along the following main topics:

- security implications,
- technology, raw materials, energy,
- biodiversity and ecosystem services,
- social and economic transition,
- public health.

The above issues will be first introduced by renowned international and Hungarian keynote speakers, to be followed by in-depth discussions in thematic sessions.

### For speakers

The organisers welcome abstracts from scientists who wish to present the results of their research in all relevant fields. Speakers of the thematic sessions will be selected in view of the evaluation by the science committee of the conference of the abstracts submitted. Researchers may also present in a concise and visual manner the result of their work in a parallel poster session. The proceedings of the event will be summarised in a conference publication (the editor will take the final decision concerning the content of the publication).

### For participants

The conference is open and free for everyone, but registration is compulsory.

### Outline of the sessions

<p><b>1. The security aspects of the natural resource crisis: conflicts, catastrophes, migration and the new world order (chair: Zoltán Hautzinger, NUPS, Faculty of Law Enforcement)</b></p> <p>According to the World Economic Forum’s Global Risks Report 2018, widespread social instability, extensive involuntary migration, water crisis, climate change and the interaction among these phenomena are amongst the biggest threats to humanity. This session explores the security aspects of sustainability, from migration through terrorism to industrial and natural disasters.</p>
<p><b>2. From Person to Planet: Scaling Sustainable Practices (chair: Mark McCaffrey – NUPS, Institute for Sustainable Development Studies) (in English)</b></p> <p>Many climate action strategies and sustainable development efforts at the international level have focused on “common but differentiated responsibilities” of nationally-driven efforts that are unique to each country. These efforts within nations emerge and evolve from a range of nested communities and social structures, including governance and security services, in which individuals are embedded. This session presents research findings that explore the challenges and opportunities for building on and increasing the reach of existing and emerging sustainability and security efforts at the various scales that ultimately connect each person to the planet.</p>
<p><b>3. Ecosystem services: collapse or adaptation? (chair: János Zlinszky, Pázmány Péter Catholic University)</b></p> <p>The concept of ecosystem services is based on the assumption that if basic services provided by nature to the functioning of socio-economic processes are monetized, then their management will be fairer and more rational. Intrusion in the functioning of these services leads to severe disturbances of human society and the environment. This thematic session seeks answers to the following questions:</p> <ul style="list-style-type: none"> <li>- How will we obtain fresh water, timber, natural energy resources or basic pharmaceutical products in case the resources provided by nature become scarce?</li> <li>- How will we cope with climate change, extreme weather events, untreatable waste and uncontrollable epidemics, if the basic regulatory functions of nature no longer work?</li> <li>- What will we say to our children if the cultural and recreational amenities provided by nature (like going hiking or bathing) are not available anymore?</li> </ul>
<p><b>4. The chances of social and economic transition (chair: Gergely Tóth, University of Kaposvár)</b></p> <p>The ongoing fourth industrial revolution provides an opportunity to improve the quality of life for all. Up to this point consumers were the winners of these processes: with the help of technology and the digital world they could enjoy new products and services that increased their personal well-being. However, the accelerating digitalization can lead to the loss of millions of jobs, the transformation of social structure and heavy overuse of natural resources. Could new technologies and changing social structures bring worldwide welfare or do they cause even greater inequalities? Will mankind be able to use the economic benefits of the new era to build a more equitable and sustainable future? This session aims to discuss dilemmas like the ones above.</p>

<b>5. Climate change and public health (chair: Anna Páldy, National Public Health Center)</b>
Climate change, overconsumption and overpopulation are transforming the natural environment that provides living conditions for humanity. This process has an effect on all the elements of the environment, public health included: the WHO estimates that 23% of all deaths are connected to environmental factors. The magnitude and direction of the effect of climate change on the state of public health is little known, even for scientists. To close this knowledge gap this session explores the following topics: present and future effects of systematic environmental changes and variations on the human body and genome; diseases appeared or are expected to appear due to climate change; new pathogens and diseases breeding or proliferating in surface water or drinking water; the worldwide migration of insects of extraordinary gradation (overpopulation) and migration capabilities and their effects on human environment and health.
<b>6. Technology, raw materials and energy in the 21st century (chair: János Lang, FLEXTRONICS)</b>
Population explosion, the demand for constant economic growth and the scarcity of some of the Earth's resources result not only in a range of social problems, but also put industry in a position where it has to deal with challenges never seen before. Nevertheless, technology is also capable of giving solutions to some of the problems mentioned above. Satisfying the energy demand of the industrially developed societies in a low-carbon manner, replacing rare raw materials with others, raising industrial productivity or preventing and managing social conflicts are only possible with research and development, fourth generation industrial automation and new information technologies. The possible answers given to this complex challenge form the topic of this session.

## Science committee

The science committee comprises the following members:

- András Szöllösi-Nagy – National University of Public Service, Institute for Sustainable Development Studies
- Zsolt Hetesi – National University of Public Service, Institute for Sustainable Development Studies
- Sándor Fülöp – National University of Public Service, Institute for Sustainable Development Studies
- Vilmos Kiszél – National University of Public Service, Institute for Sustainable Development Studies
- Zsolt Németh – National University of Public Service, Institute for Sustainable Development Studies

## Deadlines:

<b>Deadline for abstract submission:</b>	<b>31 March 2018 12:00 CET</b>
Committee decision	10 April 2018
Notification about approval of abstracts	from 11 April 2018
Confirmation of session speakers	8 May 2018

## Requirements for abstracts:

Content: max. 2000 characters.

Format: PDF (name the file with the surname and with the first letter of the first name of the presenter)

Please avoid using pictures, diagrams, formulas, charts and bibliography in the abstract.  
In the subject of the letter, please mark the title of the conference and the name of the chosen section.

For further information, please check our website regularly: <https://vtk.uni-nke.hu/kutatas-es-tudomanyos-elet/climatters-2018>.